KENWOOD

Listen to the Future

ADVANCED WIRELESS COMMUNICATIONS

TK-2140/3140

VHF/UHF FM Portable Radios

FleetSync® by KENWOOD

GENERAL FEATURES

- 5 W (136-174 MHz)
- 4 W (450-490, 470-512, 400-430 MHz)
- 32 Conventional & LTR® Systems[1]
- 10 Character Alphanumeric Aliases
- Lighted Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key
- 500 mW Speaker Audio
- Companded Audio
- Emergency Call Features
- DTMF Encode / Decode[2]
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Option
- Windows® Programming & Tuning[3]
- Windows® Firmware Uploading[3]
- Front Panel Test / Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- Intrinsically Safe Option

CONVENTIONAL SYSTEMS

- 250 Channels
- QT / DQT
- Two-Tone Decode[4]
- Operator Selectable Tone[4]
- Single Priority Scan
- Single & Multi-Group Scan

TRUNKED SYSTEMS

- 250 GID
- Kenwood LTR® Features[5]

FleetSync®

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages[6]

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Options

- **KNB-25A** Ni-Cd Battery Pack (1,200mAh)
- **KNB-26N** Ni-MH Battery Pack (2,000mAh)
- **KNB-35L** Li-ion Battery Pack (7.4V/1950mAh)

- **KNB-40LC** Li-ion Battery Pack (7.4V/1950mAh) I.S.
- **KBP-5** Battery Case
- **KSC-25** Rapid Charger
- **KSC-30** Charger for KNB-25A and KNB-26N

- **KRA-22** VHF Low Profile Helical Antenna
- **KRA-23** UHF Low Profile Helical Antenna
- **KRA-26** VHF Helical Antenna
- **KRA-27** UHF Whip Antenna
- **KMC-25** Speaker Microphone

- **KVC-3** Rapid Rate Vehicular Charger Adapter (for KSC-30)
- **KVC-4** Rapid Rate Vehicular Charger Adapter (for KSC-25)

- **KEP-1** Heavy Duty Earphone (Requires KMC-25)

- **KH5-11BL** 2-wire Palm Mic with Earphone

- **KH5-12BL** 3-wire Lapel Mic with Earphone (Black)

- **KH5-14** Lightweight Single Muff Headset

- **KLH-116** Hard Leather Case w/Swivel

- **KBH-12** Belt Clip

All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Specifications

Model	TK-2140	TK-3140
GENERAL		
Frequency Range		
Type 1	136 ~ 174 MHz	450 ~ 490 MHz
Type 2		470 ~ 512 MHz
Type 3		400 ~ 430 MHz
Systems (Trunked mode)	Max. 32	
Group (Trunked mode)	Max. 250	
Channels		
Trunked/Conventional format	Max. 600/Max. 250	
Channel Spacing		
Wide/Narrow	25, 30 kHz/12.5, 15 kHz	25 kHz/12.5 kHz
Channel Step	2.5, 5, 6.25, 7.5 kHz	5, 6.25 kHz
Operating Voltage	7.5 V DC ± 20 %	
Battery Life (5-5-90 duty cycle, during hi-power, battery saver off)		
with KNB-25A (1200mAh)	Approx. 8 hours	
with KNB-26N (2000mAh)	Approx. 12 hours	
with KNB-35L (1950mAh)	Approx. 11 hours	
Operating Temperature Range*	-22° F ~ +140° F (-30° C ~ +60° C)	
Frequency Stability	±0.00025% (-22° F ~ +140° F)	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38 MHz	40 MHz
Type 2		42 MHz
Type 3		30 MHz
Dimensions (W x H x D), Projections not included		
Radio only	2-7/32 x 4-1/8 x 7/8 in. (56 x 105 x 21.9 mm)	
with KNB-35L	2-7/32 x 4-1/8 x 1-5/32 in. (56 x 105 x 29.5 mm)	
with KNB-25A	2-7/32 x 4-1/8 x 1-3/8 in. (56 x 105 x 35.7 mm)	
with KNB-26N	2-7/32 x 4-1/8 x 1-3/8 in. (56 x 105 x 35.7 mm)	

**+14°F ~ +140°F (-10°C ~ +60°C) when KNB-26N/35L in use*

Model	TK-2140	TK-3140
GENERAL Continued		
Weight (net)		
Radio only	5.99 oz. (170 g)antenna and belt hook	
with KNB-35L	10.58 oz. (300 g)antenna and belt hook	
with KNB-25A	12.7 oz. (360 g)antenna and belt hook	
with KNB-26N	14.46 oz. (410 g)antenna and belt hook	
FCC ID		
Type 1	ALH32253110	ALH32263110
Type 1	ALH32263120	ALH32263120
Type 1	ALH32263130	ALH32263130
IC Certification	282196842A	282196837A
RECEIVER (Measurements made per EIA/TIA-204-0)		
Sensitivity (12 dB SINAD)		
Wide/Narrow	0.25µV/0.28µV	
Selectivity		
Wide/Narrow	70 dB/65 dB	70 dB/65 dB
Intermodulation Distortion		
Wide/Narrow	70 dB/65 dB	70 dB/62 dB
Spurious Response	70 dB	
Audio Output	500 mW with less than 5% distortion	
TRANSMITTER (Measurements made per EIA/TIA-603)		
RF Power Output		
HI/LO	5 W/1 W	4 W/1 W
Spurious Response	70 dB	
Modulation		
Wide/Narrow	16KØF3E/11KØF3E	
FM Noise		
Wide/Narrow	45 dB/40 dB	
Audio Distortion	Less than 3%	

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

FleetSync® is a registered trademark of Kenwood Corporation.
LTR® is a registered trademark of Transcrypt International.
All other trademarks are property of their respective owners.

Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
International Protection Standard				
Dust & Water Protection	IP54/55			

footnotes from Front:

1. *Conventional Systems: 250 Channels; Trunked Systems: 600 repeater cCH.s max.; 250 GID max. per system/per radio*
2. *DTMF includes PTT ID, Emergency ANI, Auto-Dial (32 numbers) & Stun (a.k.a. "deadbeat disable")*
3. *KPG-74D required; Windows®98/ NT/ 2000/ Me/X² compatible; English screen language only.*
4. *Two-Tone Decode (3 sets x 2 pairs each); Operator Selectable Tone (16 QT/DQT code pairs)*
5. *Kenwood LTR Features include: GID Delete/Add, LTR Talk Around/Scan Revert, Group Display, System Scan, Group Scan, Auto Search.*
6. *Short Text Messages are radio stored & LCD displayed.*

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Communications Equipment Division
Kenwood Corporation
ISO9001 certification

KENWOOD

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